

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457080

Luminaire Tested: **GALN-SA8B-827-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25251 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

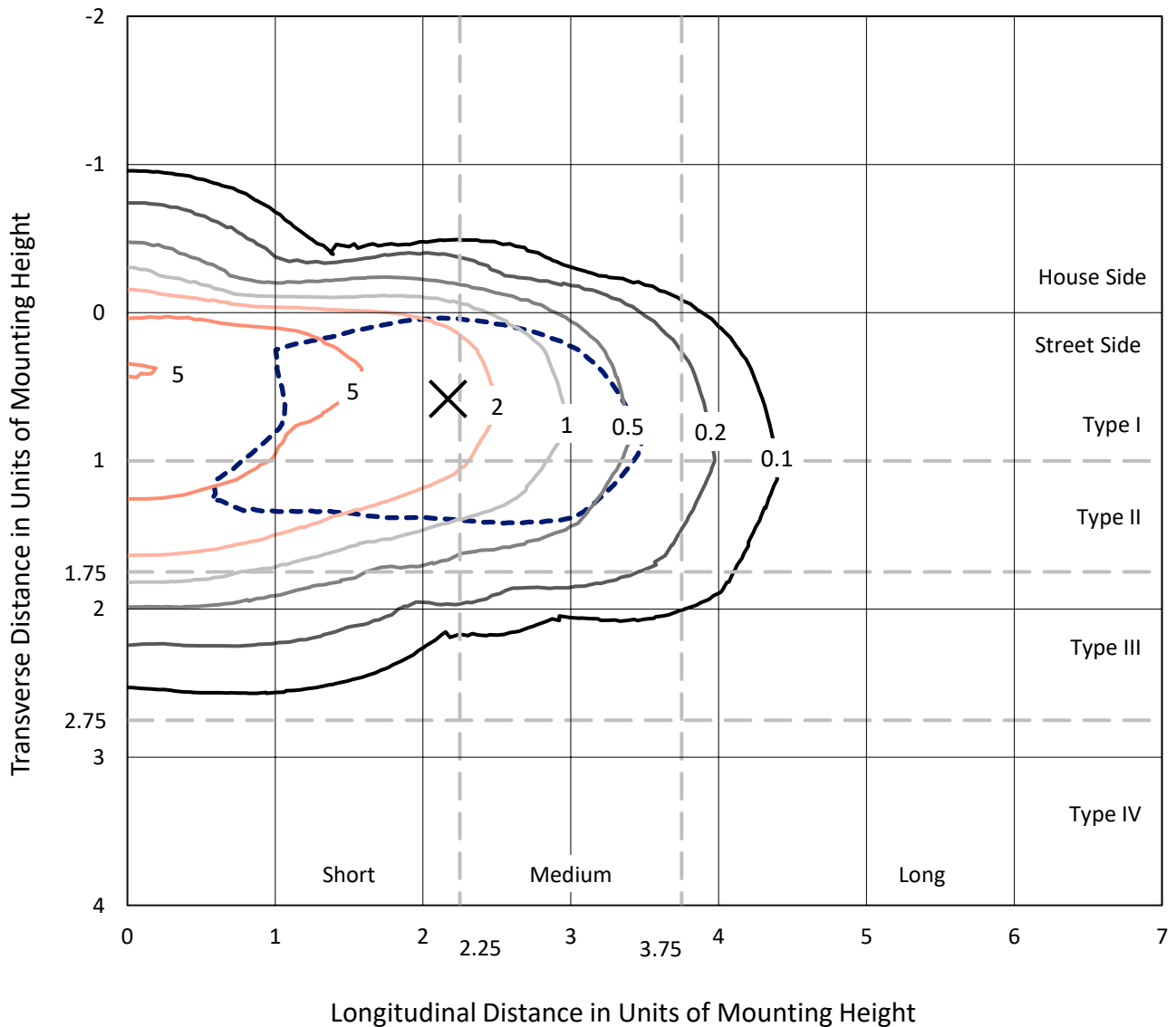
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

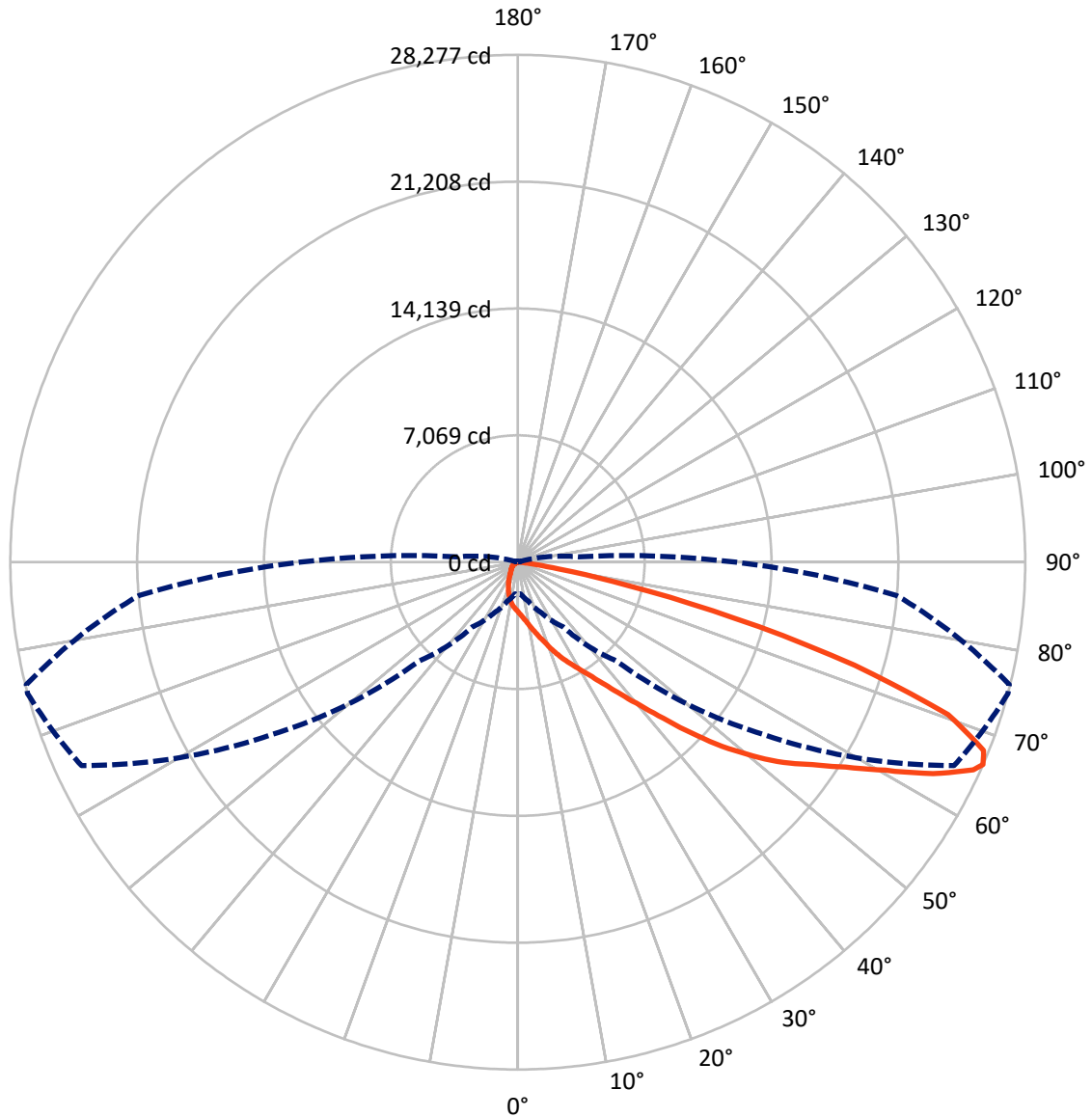
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1558.9	0.0	1558.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	23692.1	0.0	23692.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	25251.0	0.0	25251.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.3	1.1
10°-20°	783.9	3.1
20°-30°	1353.6	5.4
30°-40°	2441.6	9.7
40°-50°	4410.7	17.5
50°-60°	6876.4	27.2
60°-70°	6532.3	25.9
70°-80°	2448.1	9.7
80°-90°	138.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25251.0	100.0
0°-180°	25251.0	100.0

**Coefficient of Utilization**



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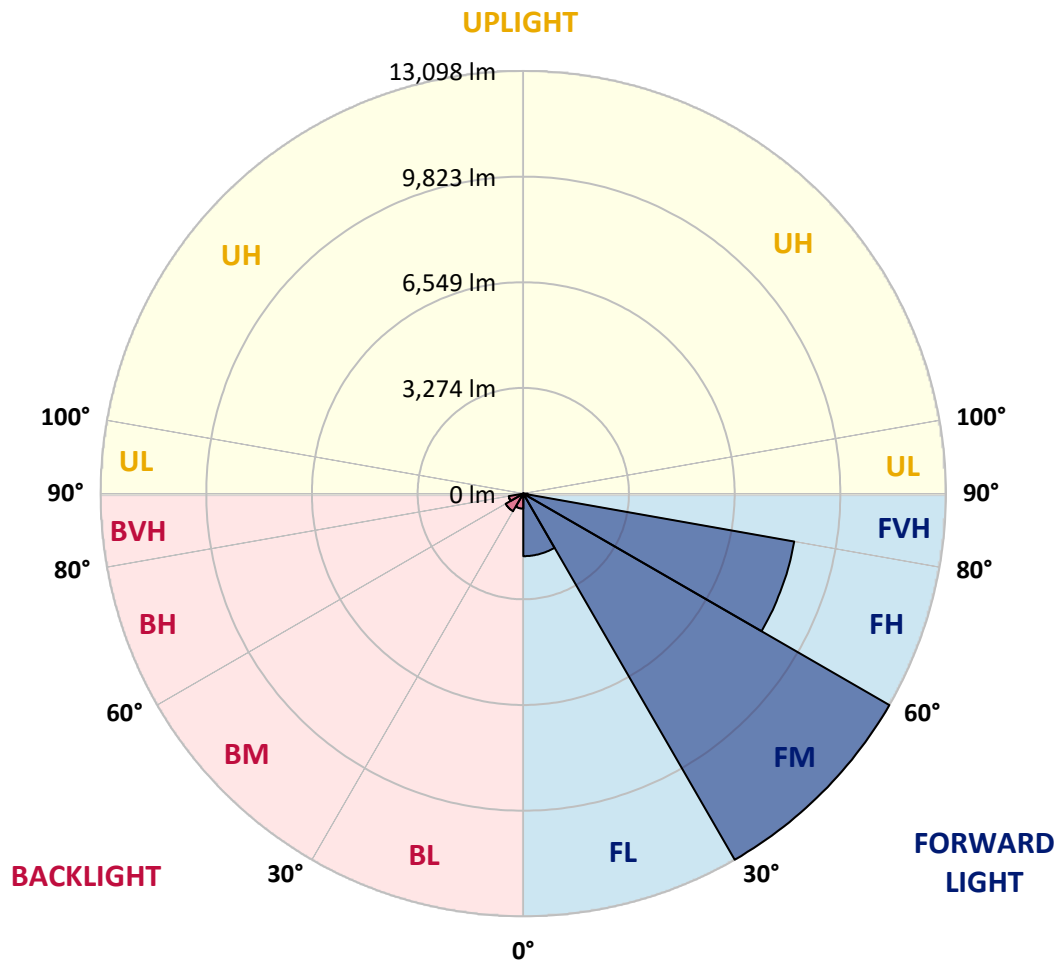
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1938.2	7.7			
FM (30°-60°)	13097.7	51.9			
FH (60°-80°)	8525.2	33.8			G4/12000
FVH (80°-90°)	131.0	0.5			G2/225
BL (0°-30°)	465.6	1.8	B1/500		
BM (30°-60°)	631.0	2.5	B1/1000		
BH (60°-80°)	455.2	1.8	B1/500		G1/500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	3299.2	3258.1	3271.2	3252.5	3209.6	3146.1	3090.1	3009.8	2929.5	2916.4	2826.8
5°	3734.2	3723.0	3708.1	3653.9	3624.0	3527.0	3411.2	3273.0	3106.9	3077.0	2914.5
7.5°	4031.1	4025.5	4032.9	4004.9	3978.8	3891.0	3767.8	3579.2	3321.6	3304.8	3034.0
10°	4128.2	4143.1	4171.1	4215.9	4257.0	4229.0	4135.6	3900.4	3599.8	3551.2	3170.3
12.5°	4072.2	4089.0	4156.2	4275.7	4408.2	4484.8	4447.4	4275.7	3894.8	3855.6	3323.4
15°	3928.4	3948.9	4044.1	4229.0	4466.1	4682.7	4776.1	4652.8	4238.3	4174.8	3508.3
17.5°	3715.5	3745.4	3881.7	4126.3	4451.2	4824.6	5087.9	5046.8	4604.3	4544.5	3709.9
20°	3555.0	3577.4	3693.1	3973.2	4387.7	4903.0	5384.7	5500.5	5056.1	4953.4	3947.1
22.5°	3661.4	3668.9	3708.1	3876.1	4273.8	4923.6	5646.1	5972.9	5536.0	5444.5	4193.5
25°	4182.3	4107.6	4068.4	4031.1	4249.5	4904.9	5883.2	6465.8	6013.9	5916.9	4438.1
27.5°	5003.8	4970.2	4772.3	4507.2	4456.8	4929.2	6040.1	6932.6	6463.9	6359.4	4677.1
30°	5898.2	5840.3	5718.9	5330.6	4940.4	5100.9	6154.0	7386.3	6996.0	6857.9	4895.5
32.5°	6719.7	6757.0	6575.9	6176.4	5724.5	5466.9	6301.5	7881.0	7606.6	7434.8	5149.5
35°	7677.5	7752.2	7474.0	7091.3	6562.9	6127.8	6589.0	8439.3	8381.4	8164.8	5541.6
37.5°	8650.3	8695.1	8525.2	7987.5	7511.4	6968.0	7130.5	9128.3	9335.5	9150.7	6010.2
40°	9468.1	9529.7	9404.6	8926.6	8418.8	7940.8	7916.5	9878.8	10470.7	10280.3	6708.5
42.5°	10093.6	10140.2	10144.0	9806.0	9348.6	9132.0	8919.2	10836.7	11893.5	11673.1	7518.8
45°	10883.3	10950.6	10911.4	10681.7	10340.0	10300.8	10190.7	11994.3	13596.2	13318.1	8570.0
47.5°	12104.4	12149.2	12052.2	11781.4	11434.1	11495.8	11430.4	13291.9	15332.7	15093.7	9658.5
50°	12952.1	13026.8	13164.9	13273.2	13021.2	12793.4	12599.2	14503.7	16981.3	16766.6	10771.3
52.5°	12942.8	13066.0	13502.9	14048.1	14598.9	14529.8	13971.5	15842.4	18555.3	18290.1	11816.9
55°	12070.8	12309.8	12952.1	13919.3	15444.7	16204.6	15950.7	17392.1	19914.5	19735.3	13028.7
57.5°	10270.9	10416.6	11309.0	12660.8	14972.3	16992.5	18243.5	19492.6	21544.5	21460.5	14910.7
60°	6908.3	6973.6	8121.9	9793.0	12746.7	16206.5	19923.9	22033.7	23551.6	23510.6	17108.3
62.5°	3958.3	3986.3	4819.0	6228.7	9070.4	13734.4	20065.8	25168.6	25958.3	25980.7	19651.3
65°	2130.4	2145.3	2817.5	3655.8	5519.2	9789.2	18043.7	26886.3	27903.9	27946.8	21227.1
66°	1839.1	1768.1	2242.4	3116.2	4391.4	7791.4	16764.7	26824.7	28277.3	28230.6	21171.1
67.5°	1398.5	1461.9	1790.6	2395.5	3254.4	5539.7	13840.8	25631.6	27993.5	27847.9	20310.4
70°	1000.8	1026.9	1275.2	1708.4	2216.3	3039.6	8844.5	21288.7	25443.0	25247.0	17694.5
72.5°	646.0	674.0	903.7	1236.0	1602.0	1659.9	4951.6	15381.2	19615.8	19587.8	13325.5
75°	461.2	487.3	597.5	885.0	1204.3	1026.9	2384.3	10366.2	12470.4	12386.4	8243.3
77.5°	334.2	347.3	399.6	578.8	860.7	735.6	1105.3	5536.0	6208.1	6501.3	3642.7
80°	192.3	203.5	278.2	352.9	582.5	502.3	528.4	2221.9	2290.9	2180.8	1138.9
82.5°	95.2	108.3	166.2	240.9	364.1	337.9	242.7	668.4	705.8	687.1	287.5
85°	22.4	28.0	93.4	158.7	177.4	151.2	117.6	196.0	242.7	237.1	110.2
87.5°	1.9	3.7	33.6	28.0	29.9	50.4	41.1	50.4	78.4	72.8	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	2785.7	2750.2	2647.6	2546.7	2462.7	2375.0	2294.7	2248.0	2229.3	2208.8	2218.1
5°	2824.9	2739.0	2531.8	2352.6	2177.0	2027.7	1908.2	1831.6	1794.3	1788.7	1779.3
7.5°	2877.2	2729.7	2408.6	2128.5	1898.8	1732.7	1596.4	1486.2	1452.6	1422.7	1398.5
10°	2940.7	2712.9	2255.5	1893.2	1648.7	1439.5	1260.3	1129.6	1062.4	1043.7	1056.8
12.5°	3007.9	2681.2	2094.9	1676.7	1394.7	1127.7	961.6	896.2	877.5	870.1	871.9
15°	3075.1	2642.0	1926.9	1467.5	1110.9	899.9	823.4	806.6	799.1	795.4	791.7
17.5°	3136.7	2578.5	1738.3	1264.0	899.9	769.2	741.2	726.3	711.4	705.8	696.4
20°	3209.6	2505.7	1568.4	1036.2	761.8	696.4	662.8	634.8	612.4	597.5	595.6
22.5°	3278.6	2412.3	1391.0	858.9	694.6	625.5	571.3	541.5	515.3	496.6	502.3
25°	3316.0	2298.4	1232.3	748.7	632.9	554.5	494.8	457.4	429.4	420.1	418.2
27.5°	3316.0	2158.4	1077.3	685.2	576.9	491.0	429.4	394.0	375.3	362.2	364.1
30°	3289.8	2003.4	933.6	636.7	528.4	435.0	377.2	345.4	330.5	321.1	319.3
32.5°	3269.3	1855.9	810.3	590.0	478.0	386.5	336.1	311.8	296.9	287.5	287.5
35°	3301.0	1728.9	715.1	543.3	431.3	349.1	304.3	281.9	267.0	259.5	257.7
37.5°	3385.1	1613.2	642.3	492.9	388.4	317.4	281.9	255.8	240.9	231.5	227.8
40°	3592.3	1547.8	588.1	446.2	347.3	291.3	255.8	231.5	212.8	203.5	201.6
42.5°	3924.7	1549.7	535.9	403.3	315.5	268.9	233.4	205.4	184.8	175.5	173.6
45°	4425.0	1620.6	494.8	362.2	287.5	244.6	209.1	179.2	160.6	151.2	151.2
47.5°	5024.4	1758.8	459.3	326.7	261.4	222.2	184.8	155.0	136.3	128.8	128.8
50°	5674.1	1938.1	423.8	289.4	239.0	197.9	158.7	134.4	119.5	113.9	113.9
52.5°	6337.0	2154.6	388.4	259.5	214.7	171.8	136.3	119.5	106.4	102.7	100.8
55°	7207.0	2431.0	351.0	227.8	188.6	147.5	121.4	104.6	89.6	84.0	82.2
57.5°	8545.7	2847.3	309.9	199.8	155.0	123.2	104.6	87.8	70.9	61.6	59.7
60°	10160.8	3355.2	267.0	175.5	125.1	100.8	84.0	67.2	52.3	41.1	39.2
62.5°	11673.1	3678.2	225.9	147.5	99.0	76.6	59.7	50.4	37.3	26.1	24.3
65°	12341.6	3569.9	186.7	119.5	78.4	54.1	39.2	35.5	22.4	11.2	9.3
66°	12119.4	3409.3	171.8	108.3	70.9	46.7	33.6	29.9	16.8	5.6	5.6
67.5°	11464.0	3030.3	149.4	93.4	61.6	37.3	26.1	22.4	9.3	1.9	0.0
70°	9822.8	2451.5	117.6	69.1	44.8	26.1	14.9	11.2	5.6	0.0	0.0
72.5°	7545.0	1826.0	93.4	52.3	31.7	14.9	7.5	3.7	5.6	0.0	0.0
75°	4622.9	1043.7	72.8	39.2	20.5	9.3	5.6	0.0	5.6	1.9	0.0
77.5°	2051.9	468.6	48.5	26.1	14.9	7.5	3.7	0.0	3.7	1.9	0.0
80°	519.1	153.1	28.0	18.7	11.2	5.6	1.9	0.0	3.7	3.7	1.9
82.5°	141.9	56.0	20.5	14.9	9.3	5.6	1.9	0.0	3.7	3.7	3.7
85°	56.0	26.1	18.7	14.9	11.2	5.6	1.9	0.0	3.7	3.7	3.7
87.5°	26.1	18.7	18.7	16.8	13.1	5.6	1.9	0.0	3.7	1.9	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)